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Asia Water Forum 2022

8–11 August 2022 • Online

Focus Area: _____

Session Title: AWF S3C

Schedule: [Monday 8 August | 1:30 – 3:00 pm]

The path toward the Asian Water Development Outlook 2025

AWDO 2020 KD2- Lessons Learnt and Way Forward

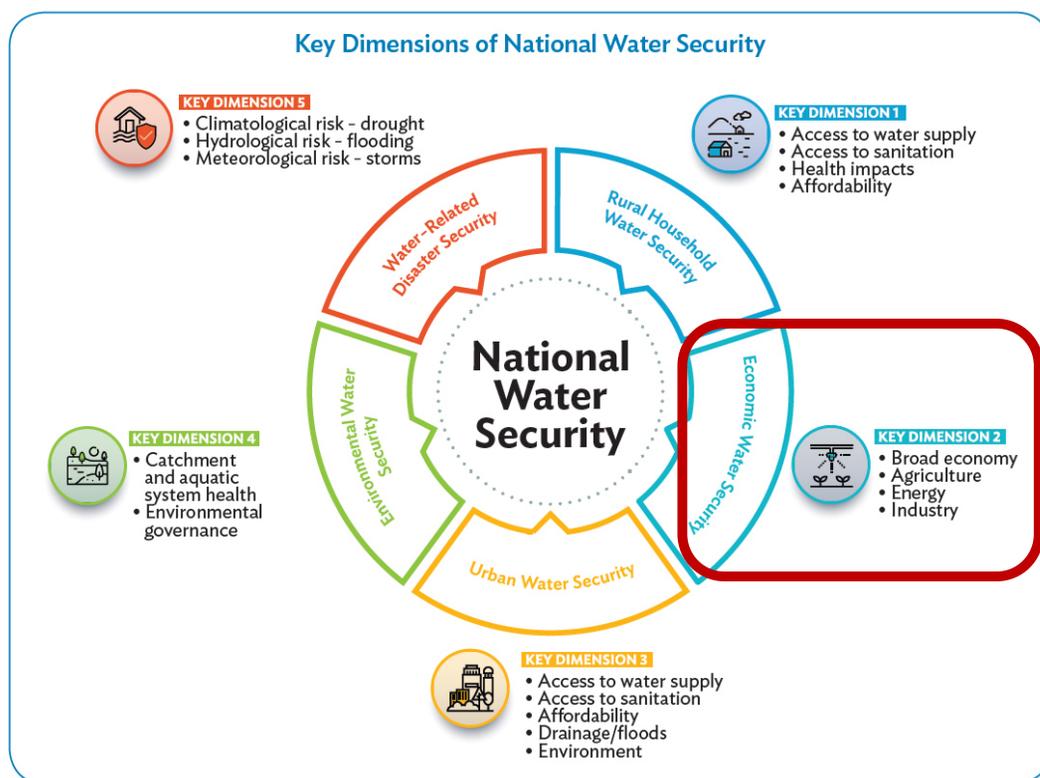
International Water Management Institute, Colombo, Sri Lanka



ADB



IWMI contributed to KD2 – Economic water security



1. Key differences
2. Indicators (2016)
3. Indicators (2020)
4. Lessons learnt
5. Way forward (2025)





Indicators for water security 2016 vs. 2020

Definition of economic water security (2016):

Economic Water Security is a measure of the assurance of adequate quality and sufficient quantity of water to sustainably satisfy a country's economic requirements.

Modified definition of water security (2020):

Economic Water Security is a measure of the assurance of adequate water to sustainably *satisfy a country's economic growth and accommodate economic losses due to water-induced disasters.*





KD2: Indicators for water security 2016 vs. 2020

Sector specific indicators



Broader Economy



Reliability & Self-sufficiency



Water Stress



Resilience and Security



Governance



Agriculture Economy



Water Productivity



Self-sufficiency



Nutrient Security



Energy Economy



Water Productivity



Energy Security



Self-sufficiency



Industrial Economy



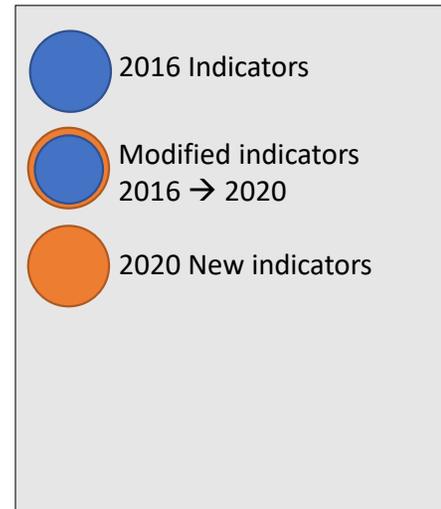
Water Productivity



Self-sufficiency



Industrial Security





KD2 2020: Lessons Learnt

- Data issues (missing data, estimated data rather than measured), uncertainty in estimates) to be handled efficiently to compute the indicators reliably.
- Redundancy in the indicator estimation;
- Need to incorporate additional indicators to capture
 - climate change impacts;
 - water quality costs;
 - sustainability indicators.





KD2: Potential improvements for 2025

Sector specific indicators



Economic



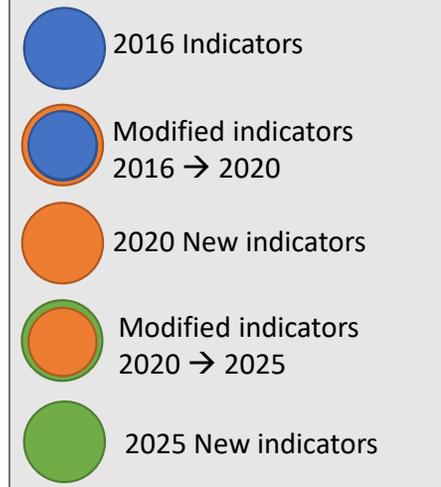
Agriculture



Energy



Industry





Potential Improvements for 2025

- The choice of current indicators were designed to be relatively **simple and consistent with previous AWDO reports** resulting in some caveats and limitation in their use.
- Focus on **improving the indicator framework and methodology** to make the framework **more comprehensive and consistent across economic sectors**; add a few new indicators to reflect environment and climate change impacts;
- Emphasis **on identifying suitable datasets from existing sources and platforms**. Use of existing global data from models or from remote sensing platforms (validation and bias correction is needed).

